RIP □□□□

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[illegible]

RIP [illegible] RIP [illegible]

[illegible] RIPv1 [illegible] RIPv2 [illegible] RIP [illegible]

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[illegible]

[illegible]

- [illegible] RIP [illegible]
- [illegible] RIPv1 [illegible] RIPv2 [illegible]
- [illegible] RIP [illegible]

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HUAWEI

RIP [illegible]

RIP [illegible] Routing Information Protocol [illegible]

[illegible] IGP [illegible]

RIP [illegible] RIPv1 [illegible] RIPv2 [illegible]

[illegible] UDP [illegible] 520 [illegible]

RIP [illegible]

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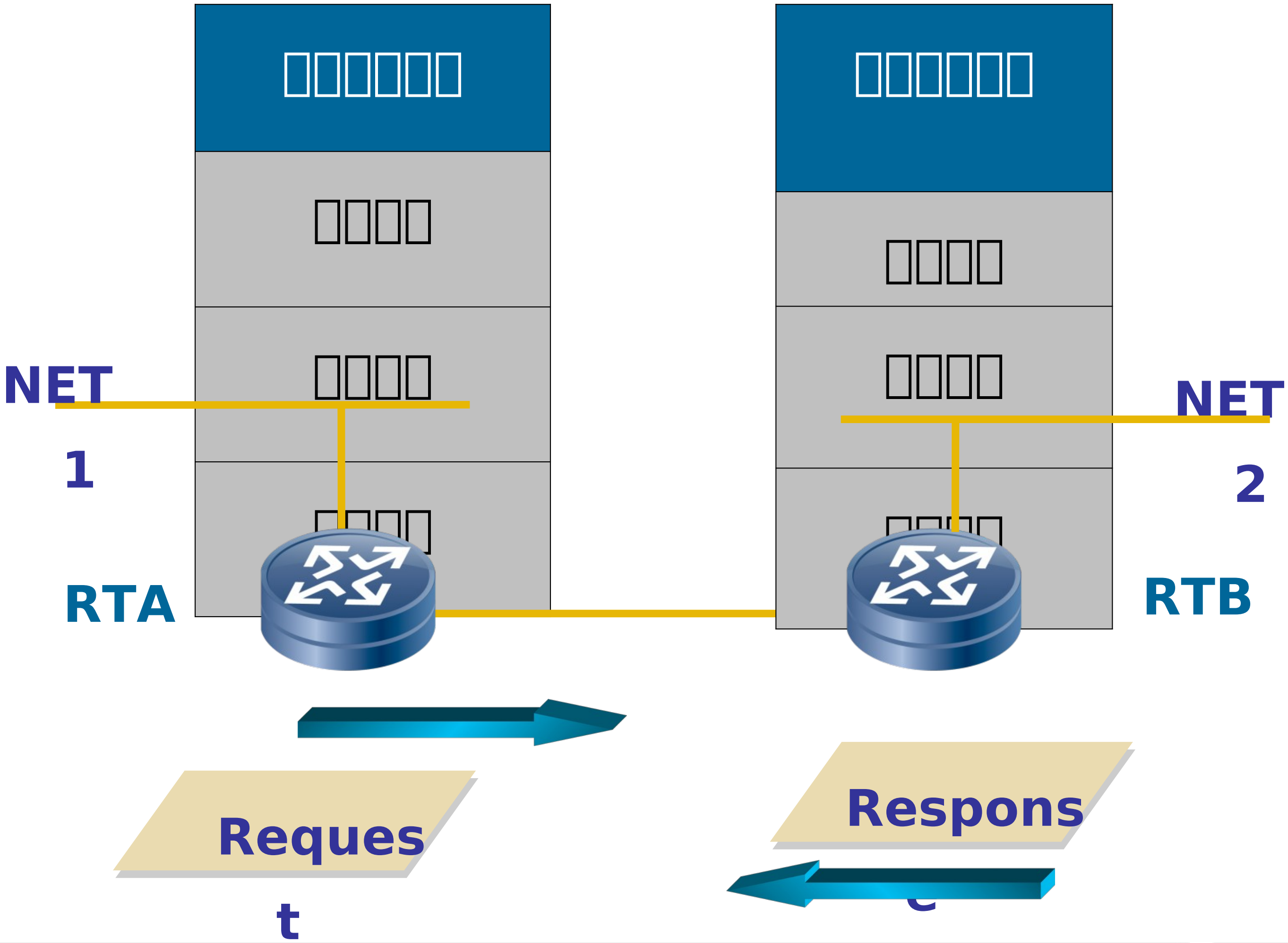
RIP



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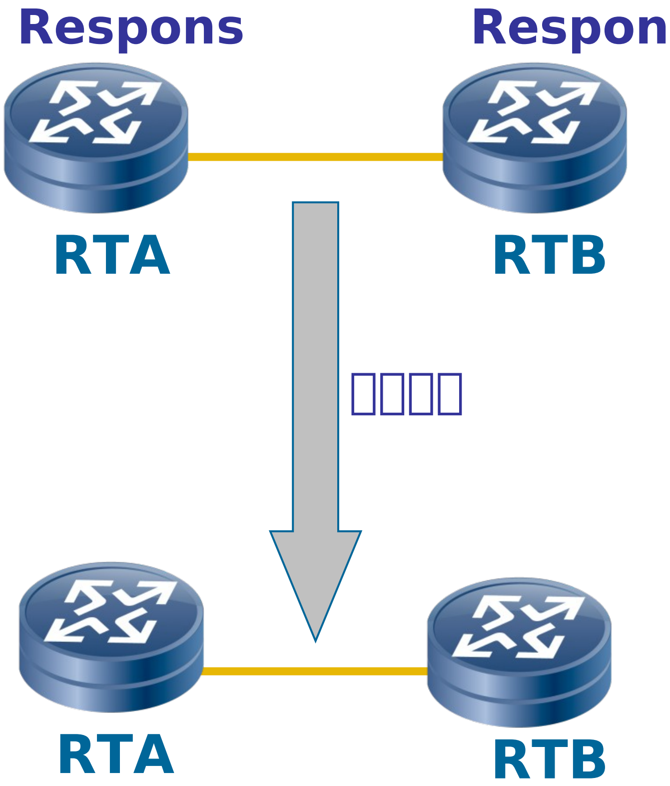
RIP [illegible]

Routing Table	
[illegible]	[illegible]
N1	C
N2	D
N3	E



Routing Table	
[illegible]	[illegible]
N4	F

Routing Table	
[illegible]	[illegible]
N1	C
N2	D
N3	E
N4	B

Routing Table	
[illegible]	[illegible]
N1	A
N2	A
N3	A
N4	F

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RIPv1 vs. RIPv2

- RIPv1 □□□□□□□□□□□□ VLSM □ CIDR
- □□□□□□□□□□
- □□□□□

- RIPv2 □□□□□□□□□□□ VLSM □□□□□□□□ CIDR
- □□□□□□□□□□ 224.0.0.9 □□□□ □□ □□
- □□□□□□□ MD5 □□□□

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RIPv1 □□□□

	0	8	16	31
	Command	**version**	**Unused(set to all zeros)**	
□□□□	**Address Family Identifier**		**Unused(set to all zeros)**	
	IP address			
	Unused(set to all zeros)			
	Unused(set to all zeros)			
	Metric			
	Multiple fields, up to maximum of 25			
□□□□	**Address Family Identifier**		**Unused(set to all zeros)**	
	IP address			
	Unused(set to all zeros)			
	Unused(set to all zeros)			
	Metric			

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RIPv2 □□□□

0	8	16	31
Command	version	Unused(set to all zeros)	

□□□□

Address Family Identifier	**Route tag**
IP address	
Subnet mask	
Next hop	
Metric	

Multiple fields, up to maximum of 25

□□□□

Address Family Identifier	**Route tag**
IP address	
Subnet mask	
Next hop	
Metric	

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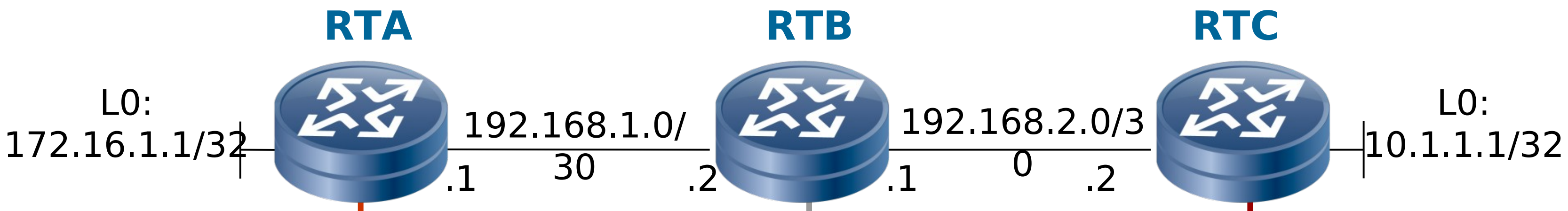
RIP [illegible]




```
[RTA] rip
[RTA-rip-1]version 2
[RTA-rip-1] network 192.168.1.0
[RTA-rip-1] network 172.16.0.0
```

```
[RTB]rip
[RTB-rip-1]version 2
[RTB-rip-1]network 192.168.1.0
[RTB-rip-1]network 192.168.2.0
```

```
[RTC]rip
[RTC-rip-1]version 2
[RTC-rip-1]network 192.168.2.0
[RTC-rip-1]network 10.0.0.0
```

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□□ RIP □□

```
[RTA]display rip
 Public VPN-instance
    RIP process : 1
       RIP version : RIP-2      Preference : 100
       Checkzero : Enabled      Default-cost : 0
       Summary : Enabled        Hostroutes : Enabled
       Maximum number of balanced paths : 8
       Update time    : 30 sec    Age time : 180 sec
       Garbage-collect time : 120 sec
       Graceful restart   : Disabled
       BFD                : Disabled
       Silent-interfaces : None
       Default-route : Disabled
       Verify-source : Enabled
       Networks :
       192.168.1.0        172.16.0.0
......
```

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□□ RIP □□

```
[RTA]display rip 1 route
 Route Flags: R – RIP
              A - Aging, G - Garbage-collect
 ----------------------------------------------------------------------
              Peer 192.168.1.2  on Serial0/0/1
      Destination/Mask        Nexthop      Cost    Tag     Flags    Sec
      192.168.2.0/30      192.168.1.2        1     0        RA       12
         10.1.1.1/32      192.168.1.2        2     0        RA       12
……
```

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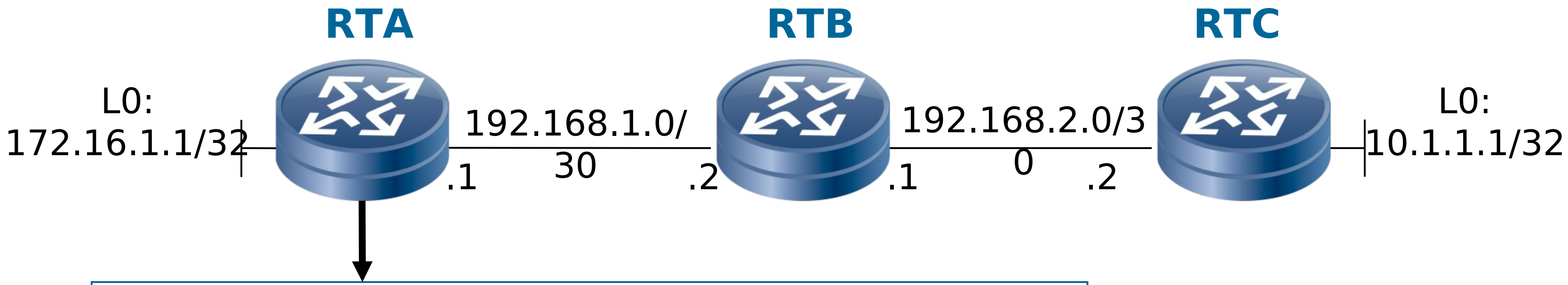
□□ RIP □□




```
[RTA-rip-1]version 2
[RTA-Serial0/0/1]rip version 2 multicast
```

```
[RTA]display rip 1
  Public VPN-instance
    RIP process : 1
       RIP version : RIP-2
……
```

RIP □□□□□ 2

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RIP [illegible]

[illegible]

[illegible]RIPv1[illegible]RIPv2[illegible]

[illegible]RIPv2[illegible]VLSM[illegible]

[illegible]RIPv2[illegible]

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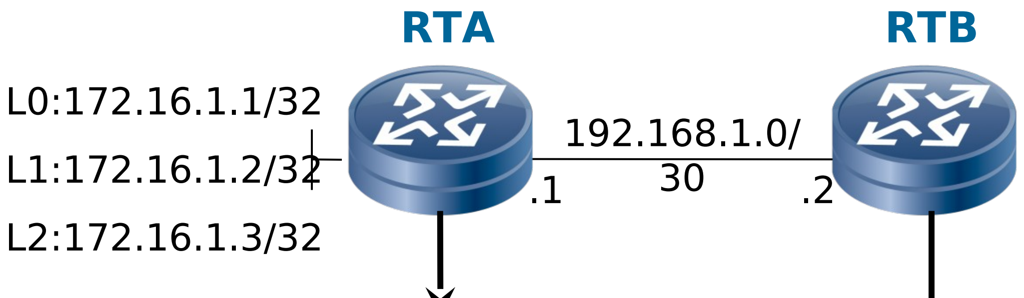
RIP [illegible]




```
[RTA-rip-1] summary
```

[illegible]

```
[RTB-rip-1]display rip 1 route
 Route Flags: R – RIP
              A - Aging, G - Garbage-collect
 ----------------------------------------------------------------------------
 Peer 192.168.1.1  on Serial0/0/0
      Destination/Mask        Nexthop      Cost    Tag      Flags    Sec
      192.168.1.0/24       192.168.1.1       1     0         RA       20
      172.16.0.0/16        192.168.1.1       1     0         RA       20
……
```

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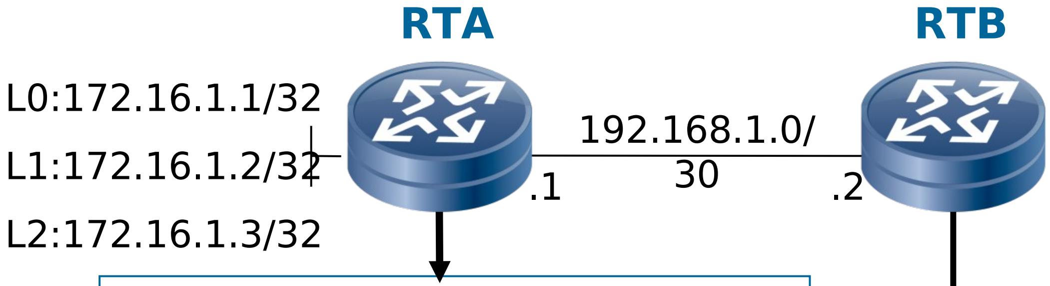
□□ RIP □□□□□□□□□




```
[RTA-rip-1] network 172.16.0.0
[RTA-rip-1] undo summary
```

```
[RTB]display rip 1 route
 Route Flags: R – RIP
              A - Aging, G - Garbage-collect
 ----------------------------------------------------------------------------
 Peer 192.168.1.1  on Serial0/0/0
      Destination/Mask        Nexthop     Cost   Tag     Flags   Sec
       172.16.1.3/32       192.168.1.1     1     0        RA      21
       172.16.1.2/32       192.168.1.1     1     0        RA      21
       172.16.1.1/32       192.168.1.1     1     0        RA      21
……
```

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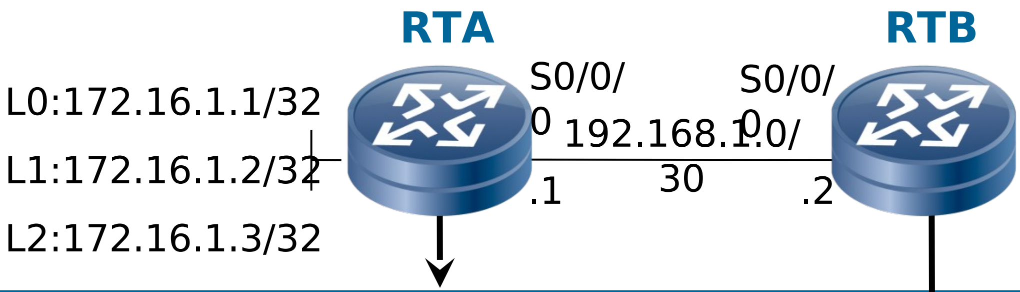
RIP [illegible]




```
[RTA-Serial0/0/0]rip summary-address 172.16.1.0 255.255.255.252
```

```
<RTB>display rip 1 route
 Route Flags: R - RIP,
              A - Aging, G - Garbage-collect
 -------------------------------------------------------------------------
 Peer 192.168.1.1  on Serial0/0/0
      Destination/Mask        Nexthop      Cost   Tag     Flags   Sec
      172.16.1.0/30       192.168.1.1       1     0       RA       8
……
```

[illegible]

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RIP □□□□□

□□ RIP □□□□□□□□□□□□□□□
□□ 1 □ 255 □□□□ 100

```
[RTA-rip-1] preference ?
     INTEGER<1-255>  Value of Preference
[RTA-rip-1] preference 150
[RTA-rip-1] display ip routing-table
 Routing Table: public net
Destination/Mask  Protocol Pre Cost     Nexthop       Interface
172.16.0.0/16     RIP      150  0       127.0.0.1     InLoopBack0
192.168.1.0/24    RIP      150  1       192.168.1.2   Serial0/0/0
……
```

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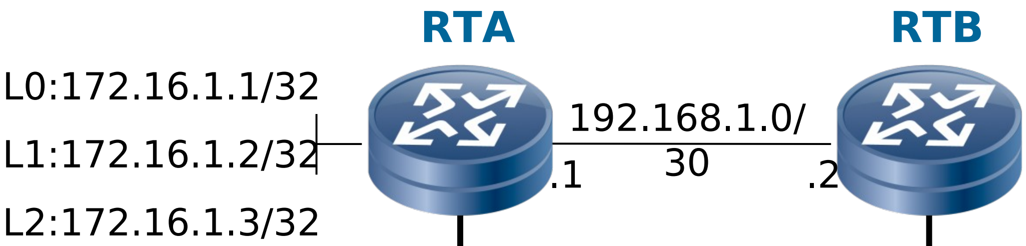
[illegible]




```
[RTA-rip] import-route direct cost 10
```

[illegible] 11

```
[RTB]display rip 1 route
 Route Flags: R – RIP
              A – Aging,G - Garbage-collect
 ----------------------------------------------------------------------------
 Peer 192.168.1.1  on Serial0/0/0
      Destination/Mask          Nexthop      Cost    Tag      Flags    Sec
      192.168.1.2/32         192.168.1.1      11     0         RA       15
       172.16.1.3/32         192.168.1.1      11     0         RA       15
       172.16.1.2/32         192.168.1.1      11     0         RA       15
       172.16.1.1/32         192.168.1.1      11     0         RA       15
……
```

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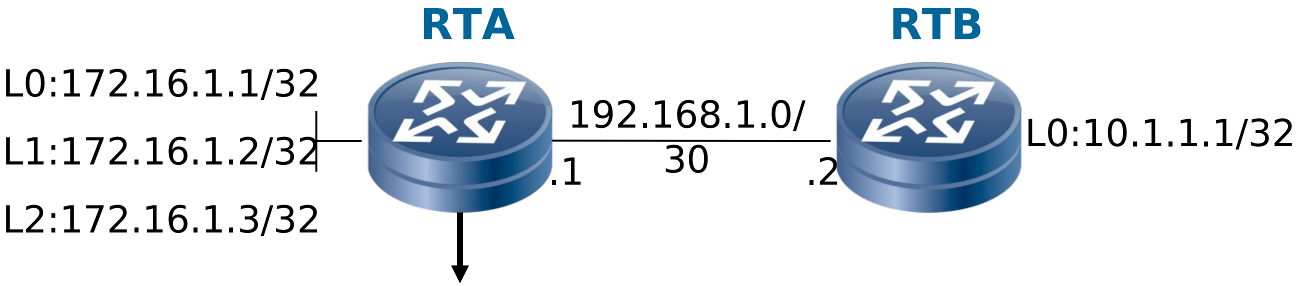


```
[RTA-Serial0/0/0]rip metricin 5
```

1+5=6

```
[RTA]display rip 1 route
 Route Flags: R - RIP, T - TRIP
              P - Permanent, A - Aging, S - Suppressed, G - Garbage-collect
 ---------------------------------------------------------------------------
 Peer 192.168.1.2  on Serial0/0/0
      Destination/Mask        Nexthop       Cost   Tag      Flags    Sec
         10.1.1.1/32        192.168.1.2       6    0         RA       16
……
```

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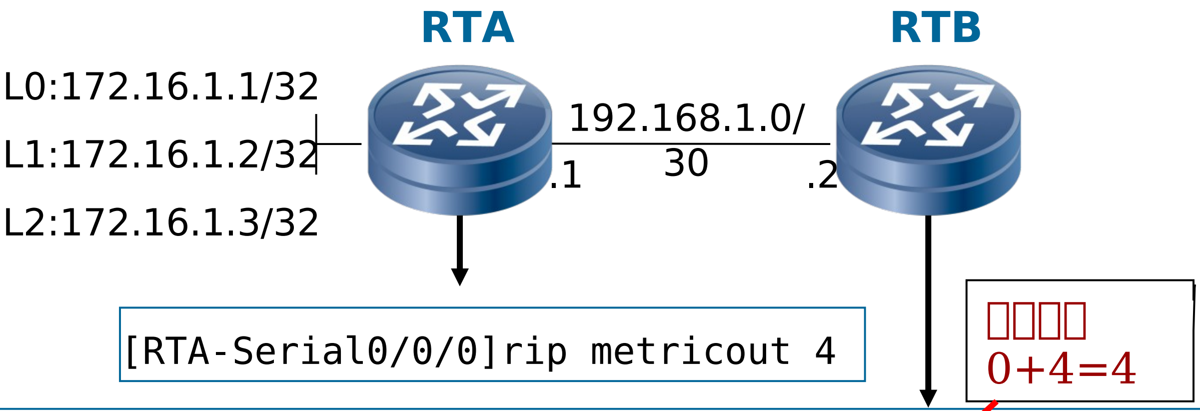
□□□□□□□




```
[RTB]display rip 1 route
 Route Flags: R - RIP, T - TRIP
              P - Permanent, A - Aging, S - Suppressed, G - Garbage-collect
 ----------------------------------------------------------------------------
 Peer 192.168.1.1  on Serial0/0/0
      Destination/Mask        Nexthop       Cost   Tag     Flags   Sec
       172.16.1.3/32       192.168.1.1       4     0        RA       5
       172.16.1.2/32       192.168.1.1       4     0        RA       5
       172.16.1.1/32       192.168.1.1       4     0        RA       5
……
```

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[illegible]

[illegible] RIP [illegible] RIPv2 [illegible] MD5 [illegible]

```
[Huawei-Ethernet0/0]rip authentication-mode { { simple password } |
{ md5 { rfc2082 key-string key-id | huawei key-string } } }
```

[illegible]

```
[Huawei-Ethernet0/0] rip input/output
```

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□ □

□□ RIP □□□□□□□□

RIPv1 □ RIPv2 □□□□□

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[illegible]

[illegible] (learning.huawei.com [illegible]

- **1 [illegible] E-learning [illegible]**
  - [illegible] **E-Learning** [illegible]
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- **2 [illegible]**
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  - [illegible] *http://support.huawei.com/ecommunity/bbs/10154479.html*
- **4 [illegible] eNSP**
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- [illegible], [illegible] [illegible]
  http://support.huawei.com/ecommunity/bbs/list_2247.html [illegible]

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